

ANNUAL REPORT OF THE COMMITTEE OF NINE
TO THE WATER USERS OF DISTRICT No. 01, SNAKE RIVER, IDAHO
1974 WATER YEAR

Precipitation and runoff for 1974 were above normal. The average precipitation for the nine representative weather stations for the water year ending September 30, 1974, was 17.42 inches compared to a normal of 15.15 inches. Much of this occurred in November, December, January, and March, contributing to an above average snow pack. The summer was hot and dry with valley stations reporting deficient precipitation, September being almost nil.

Snow surveys on April 1 indicated an accumulated snow pack of about 140 percent of normal. Flood space was made in the upper reservoirs in anticipation of the flood runoff, and the river was controlled to a maximum flow of 26,000 cfs at Heise. Heavy canal diversions at the same time minimized the flood threat. Normal flow was sustained well into July, with the Milner spill ceasing on July 13. Storage deliveries started on July 12 in the lower valley and July 18 above Blackfoot. Rights were cut back to June 1, 1895, a number of times during September.

Storage use was unusually heavy in September. Regulation discontinued on September 30 above Blackfoot, and October 10 in the lower valley. Diversions were the highest of record for the season in the upper valley, but about normal below American Falls. The lack of precipitation in September created an unusually high demand for water, thus adding to the seasonal totals.

Total usable contents in the reservoir system on September 30 was 2,151,200 acre-feet, slightly below the past 10 year average. All reservoirs filled 100 percent except American Falls which is restricted to 66 percent of its capacity.

Construction of both the Teton and Ririe Dams progressed satisfactorily with embankment work well along. It is anticipated storage will begin in 1976.

Discharge at the Minidoka Dam was not cut below the 2,700 cfs power right at any time during the year from October 1 to September 30.

Annual reservoir holdovers in thousands of acre-feet on September 30, during the past ten years are shown in the following tabulation:

Year	Jackson Lake	Pali-sades	American Falls	Lake Walcott	Henrys Lake	Island Park	Grassy Lake	Total
1965	631.6	1,161	1,023	95.3	70.4	102.8	11.3	3,095.4
1966	516.8	271	9	49.7	56.3	5.5	6.6	914.9
1967	558.8	828	494	95.8	75.6	80.8	9.6	2,142.6
1968	585.5	1,094	751	94.0	77.8	90.2	9.2	2,701.7
1969	569.7	648	239	92.3	72.6	52.1	7.0	1,680.7
1970	573.9	918	811	93.8	73.7	72.2	11.4	2,554.0
1971	598.3	1,066	1,285	93.7	83.5	993.7	12.8	3,233.0
1972	584.8	1,047	984	96.4	82.5	86.7	9.5	2,890.9
1973	607.4	629	82	82.4	79.9	71.8	9.7	1,557.2
1974	586.7	1,018	251	93.9	82.0	109.3	10.3	2,151.2
Avg.	581.4	868	593	88.7	75.4	76.5	9.7	2,292.2

The Palisades figures are after deducting 201,000 acre-feet dead storage. The usable capacity of the above reservoirs is 4,082,000 acre-feet when American Falls is considered at its unrestricted capacity, 3,507,000. The 1974 holdover is slightly below the average for the past ten years.

On April 1, 1974, the snow (water content) was the following average percent of normal: Above Jackson Lake 139%; Moran to Heise, 136%; Island Park, 130%; Falls River, 139%; Teton River, 108%.

Comparable figures for run-off during the year ending September 30, 1974, as percent of normal were: Snake River at Moran, 140%; Snake River near Heise, 135%; Henrys Fork near Ashton, 136%; Falls River near Squirrel 133%; Teton River near St. Anthony, 133%.

DIVERSIONS DURING 1974 IRRIGATION SEASON BY SNAKE RIVER CANALS

Downstream Order From Heise

(May thru September for upper valley canals; April 15 to September 30
for lower valley canals)

<u>Canal</u>	<u>Diversions (Acre-feet)</u>	<u>Acres Irrigated</u>	<u>Acre-feet Per Acre</u>
Riley	8,930	900	9.9
Progressive Irrig. District	268,700 (a)	33,000	8.1
Farmers Friend	125,900	10,500	12.0
Enterprise Canal	59,600 (b)	5,200	11.5
Nelson	620	55	11.3
Mattson-Craig & Arnsberger	6,510	485	13.4
Ross and Rand	1,140	145	7.9
Butler Island	13,700	1,100	12.5
Harrison	178,800	13,000	13.8
Cheney (Includes Steele)	5,330	323	16.5
Rudy Irrigation Co.	98,900	5,000	19.8
Kite and Nord	1,900	210	9.0
Burgess	300,300	22,000	13.6
Clark and Edwards	27,200	1,940	14.0
Lowder	19,300	1,000	19.3
East Labelle	39,100	3,000	13.0
Sunnydell	57,600	3,780	15.2
Lenroot	43,900	3,100	14.2
Reid	63,500	5,500	11.5
Texas Feeder	72,800	10,000	7.3
Nelson Corey	3,010	270	11.1
Hill Pettinger	1,330	200	6.6
Rigby	61,100	4,000	15.3
Dilts	8,590	620	10.7
Island	58,300	5,500	10.6
W. Labelle & Long Island	160,800	10,500	15.3
Parks and Lewisville	105,200	8,500	12.5
North Rigby	17,100	1,400	12.2
White	1,320	110	12.0
Ellis	330	70	4.7
Bramwell	750	470	1.6
Butte and Market Lake	90,500	20,000	4.5
Osgood	13,700	6,210(e)	2.2
Bear Island and Smith	1,150	330	3.5
Idaho	307,700(a)	35,850	8.6
Kennedy	6,270	2,200	2.8
Great Western and Porter	245,300	30,220(d)	8.1
Woodville	27,700	2,350	11.8
Snake River Valley	232,200	20,790	11.2
Reservation	67,700(e)	54,773	1.2
Blackfoot	101,900	15,000	6.8
New Lava Side	41,900	6,000	7.0
Peoples	128,500	20,000	6.4
Aberdeen	359,400	63,000	5.7
Corbett	55,200	6,000	9.2

Diversions by Snake River Canals, 1974

<u>Canal</u>	<u>Diversions (acre-feet)</u>	<u>Acres Irrigated</u>	<u>Acre-feet per acre</u>
Nielsen-Hansen	3,160	460	6.9
Riverside	41,400	5,000	8.3
Danskin	61,500	8,000	6.9
Trego	18,800	1,620	11.6
Wearyrick	17,700	1,600	11.1
Watson	36,700	3,000	12.2
Parsons	16,300	930	17.5
Fort Hall Michaud Canal	30,870(f)	8,693(f)	3.6
Falls Irrigation District	25,200(g)	7,995(g)	3.2
Minidoka Irrigation District	516,700	72,000	7.2
Burley Irrigation District	286,200	48,000	6.0
A & B Irrigation District	54,960	14,520	3.8
Twin Falls Canal Co.	1,065,700	202,700	5.3
North Side Canal	1,101,500	160,000	6.9
Milner Low Lift	66,670	13,470(h)	4.9
Gooding	460,000	63,700	7.2
		1,046,289	
TOTAL	7,294,040		7.0

- (a) Received additional water from Willow and Sand Creeks.
- (b) Used additional water from Willow Creek early in season.
- (c) Water pumped from wells for about 600 acres of this land.
- (d) Includes 7,680 acres outside New Sweden District to which water was delivered.
- (e) Received additional water from Sand Creek and Blackfoot River.
- (f) An additional 9,736 acre-feet was pumped from wells for irrigation of another 3,781 acres, 2,524 acres of which was added in 1974.
- (g) Acreage includes 235 acres of non-project land supplied from canal. An additional 209 acres supplied from wells by private users and 3,597 acres of project land were irrigated by pumping 8,023 acre-feet from wells.
- (h) Also delivered water to 645 acres outside the district.

These main river canals divered about 4 percent more water than in 1973.

Of the 3,578,400 acre-feet diverted by lower valley canals (below Neeley), 1,102,043 acre-feet, or 31 percent, was stored water. Upper Valley main canals diverted 4,802,000 acre-feet, of which 268,346 acre-feet, or 5.6 percent, was stored water.

1974 REGULATION SCHEDULE

With the exception of a few days, the Henrys Fork and Falls River remained on nearly the same regulation schedule as the main Snake River. For most of the season, the upper Teton River was cut to earlier priorities than the main river.

Figures showing the operation of the Cross Cut Canal in 1974 are shown on Plate 23A. It delivered 34,450 acre-feet to the Fall River Canal and 17,180 acre-feet to Teton River.

Occasional measurements of Big Springs near Island Park were tabulated on Page 33 of the 1965 report. Recent measurements are tabulated below:

September 14, 1964	184
August 5, 1965	202
November 8, 1965	194
September 15, 1967	183
September 5, 1968	182
November 4, 1969	190
September 28, 1970	178
October 19, 1971	198
October 10, 1973	189

CANAL DELIVERIES IN HENRYS FORK BASIN

Diversions During the 1974 Irrigation Season, May to September, from Falls River, Henrys Fork and Lower Teton River

<u>Falls River Canals</u>	<u>Diversions (acre-feet)</u>	<u>Area Irrigated (acres)</u>	<u>Acre-feet Per-Acre</u>
Yellowstone	2,850	2,100	1.4
Marysville	35,120	16,000	2.2
Farmers Own	17,480	5,800	3.0
Enterprise	24,940	5,890	4.2
Bell	976	110	8.9
Falls River	95,020 (a)	9,000	10.6
McBee	11,030	125	8.2
Chester	19,950	1,400	14.2
Silkey	4,900	1,080	4.5
Curr	15,560	1,300	12.0
TOTAL FALLS RIVER	217,826	42,935	5.1

(a) Includes 34,450 acre-feet diverted through the Cross Cut.

Canal Deliveries in Henrys Fork Basin - continued

	(acre-feet)	Area Irrigated (acres)	Acre-Feet Per Acre
<u>Henrys Fork Canals</u>			
Dewey	6,850	1,200	5.7
Last Chance	20,490	1,860	11.0
St. Anthony Union	142,100	9,700	14.6
Farmers Friend	38,810	3,025	12.8
Twin Groves	33,830	2,500	13.5
Salem Union	56,400	5,500	10.3
Egin	78,750	7,000	111.2
St. Anthony Union Feeder	18,300	2,300	8.0
Independent	74,730	6,000	12.5
Consolidated Farmers	72,630	6,000	12.1
TOTAL HENRYS FORK	542,890	45,085	12.0
<u>Lower Teton Canals</u>			
Siddoway	3,030	500	6.1
Wilford	43,740	2,300	19.0
Teton Irrigation	25,310	2,000	12.7
Good Luck	4,470	330	13.5
Pioneer	3,960	300	13.2
Stewart	6,250	478	13.1
Pincock-Byington	3,940	260	15.2
Pincock-Garner	5,460	480	11.4
Teton Island Feeder	109,300	10,400	10.5
Roxana	3,730	880	4.2
Island Ward	7,300	3,300	2.2
North Salem	988(b)	450	2.2
Bigler Slough	3,180	240	13.2
Woodmansee-Johnson	7,060(c)	1,320	5.3
City of Rexburg	6,010	950	6.3
Rexburg Irrigation	65,030	5,280	12.3
McCormick-Rowe	343	160	2.1
Saurey Sommers	5,610	275	20.4
Eames-Thompson	133	70	1.9
TOTAL LOWER TETON	304,844	29,893	10.2
TOTAL FALLS RIVER, HENRYS FORK AND LOWER TETON	1,065,560	117,913	9.0

- (b) Used additional water from Henrys Fork through Salem Union.
(c) Used additional water from Moody Creek.

The total diversions in this area were more than in 1973. Of the total diversions of 1,065,560 acre-feet, 48,722 acre-feet or 4.6 percent was stored water.

WATER DISTRICT FUNDS

Water District No. 01 collects revenues for delivery of water to users in the District and disburses these funds for expenses incurred in the operation of the District's activities, in accordance with Idaho Water Laws and Regulations. Billings to Water users of Water District No. 01 rendered at the close of the 1974 water year totaled \$69,092.59 for delivery of 4,224,989 24-hour second-feet of water.

As operating funds are collected from waterusers following the close of each water year, there is always a deficit of operating funds the latter part of each water year. The Watermaster has been authorized by action of the water users in annual meeting to borrow up to \$30,000 as funds are needed to meet operating expenses for the District.

When cash on hand derived from water users' payments substantially exceeds current operating needs, the surplus is invested in short term time certificates as authorized by Idaho State Law.

The Watermaster of Water District 01 serves on the rental storage committee and the Water District office keeps the records of water rentals and collects and disburses payments pertinent thereto.

WATER DISTRICT NO. 01 OPERATING COSTS

October 1, 1973, to September 30, 1974

SALARIES

Watermaster, Assistant, & Clerk

October 1, 1973 to June 30, 1974

@ \$26,500 yr

\$19,875.00

July 1, 1974 to Sept. 30, 1974

@ \$29,600

7,400.00

Substitute Clerk

56.00

\$27,331.00

Hydrographers

Wilson, A. W. approx 4.09 mo @ \$600 mo. 2,453.87

Wright, W. Lee approx 4.57 mo @ \$600 mo. 2,742.12

Blauers, H. & K. approx 2.65 mo @ \$600 mo 1,590.77

Richards, Val 5 days @ \$ 20 day 100.00

144 days @ \$ 21 day 3,024.00

Garrett, Sam 46 days @ \$ 21 day 966.00

Anderson, L. C. 33 days @ \$ 21 day 693.00

11,569.76

River Riders

Cole, Bruce 16 days @ \$ 13 day 208.00

Brower, Reed 29.5 days @ \$ 6 day 177.00

Brown, Wilbur 61 days @ \$ 13 day 793.00

Smith, A. & V. 5 days @ \$ 12 day 60.00

71 days @ \$ 13 day 923.00

Lenz, E. 70 days @ \$3.80 day 266.00

Taylor, R. 5 days @ \$ 12 day 60.00

72 days @ \$ 13 day 936.00

Hansen, E. 8 mo. @ \$ 50 mo 400.00

Hatfield, H. 48.5 days @ \$ 10 day 485.00

4,308.00

Gage Readers

Randall, Seymour, & Zollinger

376.50

376.50

Miscellaneous

Transportation approx 758.5 mi @ 11¢/mi. 83.45

approx 26,925 mi @ 12½¢/mi. 3,365.66

auto hire at flat rate per day

or per trip (river riders) 2,433.50

Subsistence 375.44

Telephone & Telemark 804.89

Interest on borrowed money 166.90

Watermaster's performance bond 10.00

State insurance fund 620.48

Social Security (Water District Share) 928.33

Printing and binding Watermaster Report	\$ 376.39	
Postage and post office box rent	262.00	
Storage space rental	120.00	
Ground water investigation	1,100.00	
Construction & maintenance	2,124.70	
Miscellaneous office expense	129.31	
Representative to Hells Canyon Hearing	137.19	
Watermaster's expenses	<u>1,430.84</u>	\$13,469.08
<u>Streamgaging Costs</u>		
Water District proportionate share	7	
streamgaging operations	<u>11,451.25</u>	<u>11,451.25</u>
<u>Committee of Nine Expense</u>		
Services at \$10/day & actual expenses	<u>587.00</u>	<u>587.00</u>
<u>GRAND TOTAL</u>		<u>\$69,092.59</u>

Note: Salaries for Watermaster and staff are paid into Federal-State cooperative repay account to be used to pay that part of the U.S. Geological Survey employees salaries chargeable to the Water District function. The remainder of the salaries of these employees, as determined by Federal Civil Service and Geological Survey regulations, are paid from non-Water District funding sources. The Federal fiscal year begins on July 1; therefore, an adjustment of this account is made on that date each year.

Proportionate share of the streamgaging operations and maintenance is paid into the Federal-State cooperative repay account with allowance for streamflow data needed in the Federal-State cooperative program and collected by Water District hydrographers.

CASH RECEIPTS AND CASH EXPENDITURES

October 1, 1973, thru September 30, 1974

<u>Bank Balance Sept. 30, 1973</u>	\$ 272.57
<u>Cash Receipts Oct. 1, 1973 thru Sept. 30, 1974</u>	
Water Delivery to Dist. No. 1 Waterusers	\$67,960.49
Total Billing:	\$67,959.03
Less adj to Madison Co.	
for error 1972	-2.04
Plus corrected billing to	
Gardner for 1972 & 73	+3.47
Plus 3¢ error in billing	<u>+ .03</u>
Corrected balance due for	
water deliveries	<u>\$67,960.49</u>

Bank Balance Sept. 30, 1973 brought forward		\$ 272.57
Stored water rentals: \$14,518.00 - 1973		
3,470.50 - 1974	\$17,988.50	
Map sales	242.68	
Time certificate and interest accrued	9,098.75	
State Insurance refund (1973)	172.00	
Loans to Water District to meet operating costs	26,200.00	
Bank adjustment, overpayment of accounts, & sale of gages	5.57	121,667.99

TOTAL CASH RECEIPTS

\$121,940.56

Cash Expenditures Oct. 1, 1973 thru Sept. 30, 1974

Net salaries-Hydrographers, River Riders & Gage readers	\$15,356.15	
Mileage and Auto expense-Hydrographers & River Riders	5,882.60	
Subsistence, Per Diem & Lodging for above	375.44	
Streamgaging expense-mtnc, supplies, labor & Construction	2,124.70	
Office Telephone	359.84	
Shelley Telemark	384.00	
Driggs Telephone & toll calls	61.05	
Idaho Falls Post Office Box Rent and Postage	258.60	
Post Office Box Rent - Driggs	3.40	
Garage rent for storage	120.00	
Miscellaneous office expense and supplies	107.67	
Watermaster's Expenses (Mileage, subsistence & Professional Meetings)	430.84	
Salaries-Watermaster, Assistant & Clerk	26,500.00	
Water District Proportionate Share of Streamgaging Operations	11,320.00	
Groundwater studies	900.00	
Social Security	1,856.61	
State Insurance Fund	792.48	
Watermaster's Bond	10.00	
Sales Tax to State for maps sold	18.82	
Repayment of Loans (1973 WY operating funds)	11,000.00	
Interest on Loans	265.65	
Purchase of Time Certificate	9,000.00	
Committee of Nine (1973 expenses)	442.40	
Water Rentals (1973 WY)	34,041.00	
Refund for overpayment of account	.70	
Printing and Binding Watermaster's Report	376.39	
Hell's Canyon Hearing-Representative's expense	137.19	
Purchase of Gages for resale at cost	71.77	\$122,197.30

BANK BALANCE SEPT. 30, 1974

\$ -256.74